

FORM PTO-1449 (Rev. 2-52)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 36 Doshi 58-10-27-19-	SERIAL NO. 10/673,055
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Bharat T. Doshi et al.	
(Use several sheets if necessary)		FILING DATE 09/26/2003	GROUP 2419

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/CH/	NA	5,452,286	09/1995	Kitayama	370	228	
/CH/	NB	6,512,740	01/2003	Baniewicz et al.	370	216	
/CH/	NC	US 2003/0005165 A1	01/2003	Langridge et al.	709	251	
/CH/	ND	6,977,889	12/2005	Kawaguchi et al.	370	228	
/CH/	NE	7,042,836	05/2006	Isonuma et al.	370	224	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (including Author, Title, Date, Technical Paper, Etc.)


EXAMINER /Chuong Ho/	DATE CONSIDERED 05/06/2009
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.  
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(Form PTO-1449)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /CH/

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 36 Doshi 58-10-27-19-	SERIAL NO. 10/673,055
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/CH/	MA	4,190,821	02/1980	Woodward	714	4	
/CH/	MB	4,594,709	06/1986	Yasue	714	4	
/CH/	MC	6,282,170	08/2001	Bentall et al.	370	225	
/CH/	MD	US 2002/0004843 A1	01/2002	Andersson et al.	709	238	
/CH/	ME	6,744,727	06/2004	Liu et al.	370	228	
/CH/	MF	US 2004/0184402 A1	09/2004	Alicherry et al.	370	216	
/CH/	MG	7,133,358	11/2006	Kano	370	221	
/CH/	MH	US 2004/0208547	10/2004	Sabat et al.	398	050	
/CH/	MI	US 2003/0193944	10/2003	Sasagawa	370	389	
/CH/	MJ	US 2003/0223357	12/2003	Lee	370	218	
/CH/	MK	US 2004/0114512	06/2004	Johri	370	225	
/CH/	ML	US 2002/0059432 A1	05/2002	Masuda et al.	709	227	
/CH/	MM	US 2002/0191247 A1	12/2002	Lu et al.	359	124	
/CH/	MN	US 2003/0117950 A1	06/2003	Huang	370	220	
/CH/	MO	6,643,464	11/2003	Roorda et al.	398	59	
/CH/	MP	6,778,492	08/2004	Charny et al.	370	228	
/CH/	MQ	6,996,065	02/2006	Kodialam et al.	370	238	
/CH/	MR	7,218,851	05/2007	Zang	398	33	
/CH/	MS	7,477,657	01/2009	Murphy et al.	370	468	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

(OTHER DOCUMENTS: Duplicates, Author, Title, Date, Referred Pages, Etc.)

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(Use several sheets if necessary)		FILING DATE 09/26/2003	GROUP <del>2009</del> 2419

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/CH/	KA	US 7,362,709 B1	04/2008	Hui et al.	370	237	
/CH/	KB	US 6,205,117 B1	03/2001	Doshi et al.	370	228	
/CH/	KC	4,797,882	01/1989	Maxemchuk	370	94	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (including Author, Title, Date, Worksheet, Pages, Etc.)

/CH/ /CH/	KD	"Fast, Scalable, and Distributed Restoration in General Mesh Optical Networks" by Gary P. Austin et al.; Bell Labs Technical Journal, January-June 2001; pp. 67-81.
	KE	"Optimal Design and Evaluation of Survivable WDM Transport Networks" by Yasuhiro Miyao et al.; IEEE Journal on Selected Areas in Communications, Vol. 16, No. 7, September 1998, pp. 1190-1198.

EXAMINER	/Chiung Ho/	DATE CONSIDERED	12/02/2008
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/CH/	JA	US 2008/0095045 A1	04/2008	Owens et al.	370	220	
/CH/	JB	US 7,197,008 B1	03/2007	Shabazay et al.	370	218	
/CH/	JC	US 6,711,125 B1	03/2004	Walrand et al.	370	223	
/CH/	JD	US 6,606,303 B1	08/2003	Hassel et al.	370	238	
/CH/	JE	US 2003/0112760 A1	06/2003	Puppa et al.	370	241.1	
/CH/	JF	US 6,477,582 B1	11/2002	Luo et al.	709	241	
/CH/	JG	5,956,339	09/1999	Harada et al.	370	400	
/CH/	JH	5,933,425	08/1999	Iwata	370	351	
/CH/	JI	5,754,543	05/1996	Seid	370	351	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author Title Date Pertinent Pages Etc.)

/CH/	JJ	"Using Local Information for WDM Network Protection", by Hungjen Wang et al., <a href="http://www.mit.edu/~modiano/papers/C46.pdf">http://www.mit.edu/~modiano/papers/C46.pdf</a> , 2002, pp. 1-4.

EXAMINER /Chuonng Ho/	DATE CONSIDERED 12/02/2008
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/CH/	JB	US 7,197,008 B1	03/2007	Shabtay et al.	370	218	
/CH/	JC	US 6,711,125 B1	03/2004	Walrand et al.	370	223	
/CH/	JD	US 6,606,303 B1	08/2003	Hassel et al.	370	238	
/CH/	JE	US 2003/0112760 A1	06/2003	Puppa et al.	370	241.1	
/CH/	JF	US 6,477,582 B1	11/2002	Luo et al.	709	241	
/CH/	JG	5,956,339	09/1999	Harada et al.	370	400	
/CH/	JH	5,933,425	08/1999	Iwata	370	351	
/CH/	JJ	5,754,543	05/1998	Seid	370	351	

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/CH/	JJ	"Using Local Information for WDM Network Protection", by Hungjen Wang et al., <a href="http://www.mit.edu/~modiano/papers/C46.pdf">http://www.mit.edu/~modiano/papers/C46.pdf</a> , 2002, pp. 1-4.

EXAMINER	/Chuong Ho/	DATE CONSIDERED	12/02/2008
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/CH/	KA	US 7,362,709 B1	04/2008	Hui et al.	370	237	
/CH/	KB	US 6,205,117 B1	03/2001	Doshi et al.	370	228	
/CH/	KC	4,797,882	01/1989	Maxemchuk	370	94	

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/CH/ /CH/	KD	"Fast, Scalable, and Distributed Restoration in General Mesh Optical Networks" by Gary P. Austin et al.; Bell Labs Technical Journal; January-June 2001; pp. 67-81.
	KE	"Optimal Design and Evaluation of Survivable WDM Transport Networks" by Yasuhiro Miyao et al.; IEEE Journal on Selected Areas in Communications, Vol. 16, No. 7, September 1998, pp. 1190-1198.

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/CH/	IA	US 7,308,198 B1	12/2007	Chudak et al.	398	58	
/CH/	IB	US 7,280,755 B2	10/2007	Kang et al.	398	7	
/CH/	IC	US 7,272,116 B1	09/2007	Houchen	370	258	
/CH/	ID	US 7,209,975 B1	04/2007	Zang et al.	709	238	
/CH/	IE	US 7,164,652 B2	01/2007	Puppa et al.	370	225	
/CH/	IF	US 7,110,356 B2	09/2006	Ilkikal et al.	370	222	
/CH/	IG	US 6,795,394 B1	09/2004	Swinkels et al.	370	222	
/CH/	IH	US 2004/0174882 A1	09/2004	Willis	370	395.5	
/CH/	II	US 6,725,401 B1	04/2004	Lindhorst-Ko	714	47	
/CH/	IJ	US 6,549,513 B1	04/2003	Chao et al.	370	227	
/CH/	IK	US 6,538,987 B1	03/2003	Cedrone et al.	370	216	
/CH/	IL	US 2003/0048749 A1	03/2003	Stamatelakis et al.	370	225	
/CH/	IM	US 2002/0118636 A1	08/2002	Phelps et al.	370	222	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (including Author, Title, Date, Publication, Patent, Etc.)

/CH/	IN	"Operation & Maintenance mechanism for MPLS networks" ITU-T, Y.1711, 2002, pages 1-22.

EXAMINER	/Chuong Ho/	DATE CONSIDERED	04/23/2008
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FORM PTO-1449 (Rev. 2-3-82)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 36 Doshi 58-10-27-19-	SERIAL NO. 10/673,055
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Bharat T. Doshi et al.	
(Use several sheets if necessary)		FILING DATE 09/26/2003	GROUP 2419

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/CH/	HA	US 2004/0008619 A1	01/2004	Doshi et al.	370	217	
/CH/	HB	6,075,766	06/2000	Croclin	370	225	
/CH/	HC	5,881,048	03/1999	Croclin	370	228	

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							

EXAMINER	/Chuong Ho/	DATE CONSIDERED	03/25/2008
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990.0508

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

Re: Attorney Docket No. Doshi 58-10-27-19-36

In re application of: Bharat T. Doshi, Zbigniew M. Dziong, Ramesh Nagarajan,  
Muhammad A. Qureshi and Yung-Terng Wang

Serial No.: 10/673,055

Filed: 09/26/03

Matter No.: 990,0508

Group No.: 2616 2419

Examiner: Chuong T. Ho

Phone No.: 571-272-3133

For: Restoration Path Calculation Considering Shared-Risk Link Groups In Mesh Networks

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

CH  
09/19/07  
In accordance with 37 CFR § 1.56, this is an Information Disclosure Statement (IDS) for the above-captioned U.S. patent application. An IDS Form PTO-1449 listing references is enclosed herewith and forms a part hereof. Submission of references is not an admission that those references are in fact prior art.

**Certification Under 37 CFR § 1.704(d)**

- [ ] Each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of this statement.

**Certification Under 37 CFR § 1.97(e)**

- [X] Each item of information contained in this statement was either (1) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement or (2) not known to any individual designated in § 1.56(c) more than three months prior to the filing of this statement.

Fee Under 37 CFR § 1.97(c)

☐ The fee for submission of this IDS under § 1.97(c) is \$180.00 as set forth in § 1.17(p).

Petition Under 37 CFR § 1.97(d)

☐ This is a petition requesting consideration of an IDS under § 1.97(d). The petition fee for submission of this IDS under § 1.97(d) is \$180.00 as set forth in § 1.17(p).

Provision of Copies of References

☒ A copy of DJ is enclosed herewith and forms a part hereof.

☐ A translation of each of Reference(s)     is enclosed herewith and forms a part hereof.

☐ A copy of the International Search Report from a corresponding PCT application is enclosed herewith.

☐ A copy of the European Search Report from a corresponding EPO application is enclosed herewith.

☐ A copy of the final U.S. office action for U.S. patent application no.            filed on            as attorney docket no. (Case name or our ref.).

☐ The above-captioned U.S. patent application is a

☐ continuation  
☐ divisional  
☐ continuation-in-part

application of U.S. application serial number       , filed on        as Attorney Docket No.       . Each of the listed references was previously cited by or submitted to the Office in the prior application. The above-captioned U.S. patent application relies upon the prior application for an earlier filing date under 35 U.S.C. 120. Pursuant to § 1.98(d), copies of the listed references are not being provided with this IDS.

Authorization To Charge Deposit Account

☒ Authorization is given to charge the deposit account of Mendelsohn & Associates, P.C.  
Deposit Account No. 50-0782 for any fee under § 1.97(c) or § 1.97(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449 form as confirmation that each of the documents has been considered.

Respectfully submitted,

Date: 05-16-2007  
Customer No. 46850  
Mendelsohn & Associates, P.C.  
1500 John F. Kennedy Blvd., Suite 405  
Philadelphia, Pennsylvania 19102

/Steve Mendelsohn/  
Steve Mendelsohn  
Registration No. 35,951  
Attorney for Applicant  
(215) 557-6657

Enclosures

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.

Doshi 58-10-27-19-36

APPLICATION NO.

10/673,055

APPLICANT(S)

Bharat T. Doshi et al.

FILING DATE

09/26/2003

GROUP ART UNIT

2616-2419

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/CH/	DA	US 7,188,280 B2	03-2007	Shinomiya et al.	714	43	
/CH/	DB	US 6,863,363 B2	03-2005	Yabuta	347	19	
/CH/	DC	US 6,856,592 B2	02-2005	Grover et al.	370	216	
/CH/	DD	US 6,850,487 B2	02-2005	Mukerjee et al.	370	225	
/CH/	DE	5,995,485	11-1999	Croslin	370	216	

## U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/CH/	DF	US 2006/0178918 A1	08-2006	Mikurak	705	7	
/CH/	DG	US 2006/0013149 A1	01-2006	Jahn et al.	370	254	
/CH/	DH	US 2005/0185652 A1	08-2005	Iwamoto	370	395.1	
/CH/	DI	US 2004/0190461 A1	09-2004	Gullicksen et al.	370	258	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/CH/		DJ	Cisco's Packet over SONET/SDH (POS) Technology Support; Mission Accomplished" Copyright 1997. Cisco Systems, Inc. pp. 1-8.

EXAMINER	/Chuong Ho/	DATE CONSIDERED	09/19/2007
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<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>	ATTY DOCKET NO. <b>Doshi 58-10-27-19-36</b>	APPLICATION NO. <b>10/673,055</b>
	APPLICANT(S) <b>Bharat T. Doshi et al.</b>	
	FILING DATE <b>09/26/2003</b>	GROUP ART UNIT <b>2616 2419</b>

**U.S. PATENT DOCUMENTS**

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**U.S. PATENT APPLICATION PUBLICATIONS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/CH/	PA US 2003/0021222 A1	01-2003	Boer et al.	370	216	
/CH/	PB US 2002/0071392 A1	06-2002	Grover et al.	370	241	
/CH/	PC US 2001/0038471 A1	11-2001	Agrawal et al.	359	110	

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							YES	NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


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X-100. DOCKET NO.

SERIAL NO.

Doxhi 58-10-27-19-36

10/673,055

(Use several sheets if necessary)

Bharat T. Doshi, Zbigniew M. Dziog, Muhammad A. Qureshi, Muhammad A. Qureshi and Yung-Terng Wang	
FILING DATE	GROUP

FLYING DATE

**GROUPE**

9/26/03

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FOREIGN PATENT DOCUMENTS

[illegible]

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

OTWPS DOCUMENTS (including Author, Title, Date, Referral Page, Etc.)		
/CH/	BA	"Optical Network Design and Restoration" by B. T. Doshi, et al., BLTJ, January-March 1999.
	BB	"Design of a Meta-mesh of Chain Subnetworks: Enhancing the Attractiveness of Mesh-Restorable WDM networking on Low Connectivity Graphs" by W. D. Grover and J. Doucette, IEEE JSAC, Vol. 20, No. 1, January 2002.
/CH/	BC	"SONET Bidirectional Line-Switched Ring Equipment Generic Criteria," Generic Requirements, GR-1230-CORE, Issue 4, December 1998, pps. 3-48 through 3-61.

EXAMINER	/Chuong Ho/	DATE CONSIDERED	04/12/2007
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